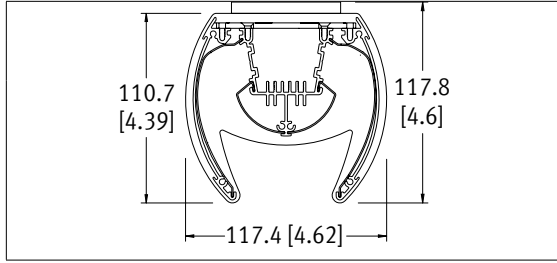


# Arches A4S

LED . Surface



CAT #:
PREP BY:
DATE:
PROJECT:
TYPE:
NOTES:

## ORDERING LOGIC

Sample part number: A4S-2L35K-4-NN-SA-L31-S-1-NR-0

A4S		Optics		Finish		1		S		N		End Cap										
Series/Model	Color Temp	Length	Up	Down	Finish	LL/Driver	Circuitry	Mounting	Voltage	Control	Drive Loc.	End Cap										
<b>Color Temp</b>	2L30K = 3000K 2L35K = 3500K 2L40K = 4000K	<b>Optics Up</b> N = None	<b>Optics Down</b> N = None		<b>Finish</b> B = Black SA = Satin Aluminum W = White C = Custom Finish Specify RAL#:	<b>Light Levels (LL) /Driver</b> Fixture Lumens - Direct *Light level measured at 3500K. Add 3% lumen output for 4000K or subtract 2% lumen output for 3000K.		<b>Circuitry</b> 1 = 1 Circuit	<b>Control</b> N = None		<b>Driver Location</b> N = None (mounted integral)											
<b>Length</b>	2 = 2 ft 4 = 4 ft 8 = 8 ft R = Continuous Rows (Consult factory)			Side Decals are optional. See p.2 for Side Decal Info		<table border="1"> <thead> <tr> <th>0-10V Dimming (Standard)</th> <th>3500k</th> </tr> </thead> <tbody> <tr> <td>L1</td> <td>= 2436</td> </tr> <tr> <td>L2</td> <td>= 3100</td> </tr> <tr> <td>L3</td> <td>= 4456</td> </tr> <tr> <td>L4</td> <td>= 8521</td> </tr> </tbody> </table> Based on 4ft sections.		0-10V Dimming (Standard)	3500k	L1	= 2436	L2	= 3100	L3	= 4456	L4	= 8521	<b>Mounting</b> S = Surface (Ceiling)	<b>End Cap Options</b> O = Open (Standard) X = Custom (Consult Factory)		<b>R = Remote Driver Box</b>	
0-10V Dimming (Standard)	3500k																					
L1	= 2436																					
L2	= 3100																					
L3	= 4456																					
L4	= 8521																					
								<b>Voltage</b> 1 = 120 V 2 = 277 V 3 = 347 V 4 = UNV (120 - 277 V)														

## SPECIFICATIONS

Due to the Continuous Improvement Policy at Metalumen, we reserve the right to change our specifications without notice.

**Housing:** Rigid 3-piece extruded aluminum body with 22-gauge steel top cover plate.  
**End Caps:** Steel powder coated, semi-open (standard) or closed end. Consult factory for custom end caps.  
**Optical System:** MetalLED mid-flux LED technology transmits to internal smooth, high performance reflectors. Open luminaire, no lens design.  
**CRI:** 83+ (3500K) (80 minimum for all CCT)

**Lumen Maintenance:** At an ambient operating temperature of 25°C our LED system output remains useful at L85 > 60 000hrs.  
**Finish:** Black, satin aluminum, or white powder coated paint finish. For custom finish, contact factory. Side Decals are optional. See p.2 for Side Decal info and options.  
**Mounting:** Surface mounting plate provided.  
**Drivers:** Metalumen offers dimming drivers as a standard on our entire LED product

offering at 0-10V. Dimming range is down to 1%. Power factor @ full load is >90% with a Class 2 rating.  
**Controls:** Not available.  
**Options:** Consult factory for Lutron driver options:  
 • L3DAE Hi-lume 1% EcoSystem LED Driver  
 • L3DA3W Hi-lume 1% 3-wire LED Driver  
 • LTEA2W Hi-lume 1% 2-wire LED Driver  
 • LDE1 Hi-lume 1% -H EcoSystem LED Driver

• LDE5 5-Series EcoSystem LED Driver  
 • FCJ010 EcoSystem to 0-10V Wireless RF  
**Approvals:** Certified to NRTL safety and IES Recommendation testing standards. All components are UL/CSA/QPS recognized or listed, RoHS, LM79, LM80 and LM82 compliant.  
**Environment:** Suitable for dry locations.

## WARRANTY

Metalumen will warrant defective luminaires for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specification. If defective, Metalumen will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Metalumen.

## LUMINAIRE WATTAGE AND OUTPUT SPECIFICATION

Light Level	Wattage	Lumens Delivered	Efficacy (LPW)
L1	27.78	2436	87.7
L2	35.42	3100	87.5
L3	48.62	4456	91.6
L4	97.24	8521	87.6

## APPROVALS

Signature \_\_\_\_\_

Date \_\_\_\_\_

FILE NAME: Arches\_A4S\_LED\_S\_SPEC\_SHEET

20170307

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 Mailing Address: P.O. Box 1779 Guelph, Ontario, N1H 6Z9

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 www.metalumen.com

Metalumen

## FEATURES



**COMMERCIAL // Commercial Lighting** - With over 30 years of successful architectural lighting, providing unique concept and installation solutions has become second nature. Metalumen's Start to End Development Process results in unique performance, design and architectural requirements from concept through implementation. Metalumen's Lighting Solutions have been

applied to customer projects requiring: high profile architectural installations; improved energy efficiency; retrofit installations; unique installations. Metalumen can provide top-quality innovative fixtures when and where they are needed and, at the same time, allow the customer to determine their level of involvement in Metalumen's Start to End Development Process.



**Edulumen** is a collection of premium luminaires that maximize both the functionality and performance of any educational facility. Based on maximum efficiency, integration of controls and exceptional design, Edulumen will earn high marks for meeting your requirements. Students challenge themselves throughout the day to achieve, and Metalumen is dedicated to this by

creating sustainable environments that foster enhanced educational experiences

**META LED** boards with a raw efficacy of over 120lm/W, proprietary to Metalumen. A slim LED platform for any of your LED linear application.

## DECAL INFORMATION

### Decal Measurements for standalone fixtures

**2 ft** Length: 630 [24.8]  
Height: 87.0 [3.43]

**4 ft** Length: 1239.6 [48.8]  
Height: 87.0 [3.43]

**8 ft** Length: 2458.8 [96.8]  
Height: 87.0 [3.43]

Thickness: 0.50

Consult factory for continuous run decal measurements.

## PHOTOMETRIC DATA - 3500K

L3

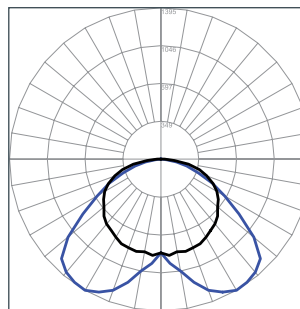
**File Name:** A4S-2L35K-4-NN-L3  
**Luminaire Lumens:** 4456  
**Total Watts:** 48  
**Efficacy:** 91.6 lms/W  
**Optics Up:** None  
**Optics Down:** None

### COEFFICIENTS OF UTILIZATION

Zonal Cavity Method  
Effective Floor Cavity Reflectance = .20

RC	80				70				50			
	70	50	30	10	70	50	30	10	50	30	10	
RCR												
0	119	119	119	119	116	116	116	116	111	111	111	
1	108	103	98	94	105	100	96	92	96	92	89	
2	97	88	81	75	94	86	80	74	83	77	72	
3	88	77	68	61	85	75	67	60	72	65	59	
4	80	67	58	51	77	66	57	50	63	55	49	
5	73	59	50	43	71	58	49	43	56	48	42	
6	67	53	43	37	65	52	43	36	50	42	36	
7	62	48	38	32	60	47	38	32	45	37	31	
8	57	43	34	28	56	42	34	28	41	33	28	
9	53	39	31	25	52	39	30	25	37	30	25	
10	50	36	28	22	48	35	27	22	34	27	22	

### PHOTOMETRIC CURVE



### LUMINANCE DATA (CD/M<sup>2</sup>)

Vertical Angle	Horizontal Angle		
	0	45	90
45	6583	6614	6290
55	6812	6009	4323
65	7204	4065	2693
75	7203	2157	1373
85	4788	634	339

### CANDLE DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	861.09	861.09	861.09	861.09	861.09
5	888.37	935.69	933.44	976.76	964.07
10	863.88	920.78	1002.59	1048.29	1045.73
15	879.4	946.87	1052.51	1140.32	1174.61
20	868.54	973.25	1139.57	1259.27	1283.6
25	860.31	1005.23	1196.17	1316.11	1349.22
30	830.85	998.01	1246.4	1349.76	1394.51
35	799.31	1017.54	1249.86	1346.61	1384.64
40	777.62	1026.33	1252.78	1330.82	1356.17
45	742.23	1004.97	1209.77	1286.43	1297.29
50	683.07	970.46	1158.7	1170.69	1118.28
55	646.12	919.2	1058.22	942.62	878.18
60	595.99	858.63	883.07	723.18	680.3
65	533.54	766.15	666.54	544	522.14
70	450.06	622.34	471.3	394.08	368.71
75	367.5	452.16	316.71	262.79	245.44
80	258.2	264.86	186.68	155.53	146.63
85	126.55	120.2	79.42	61.1	53.68
90	33.29	37.66	21.57	8.45	2.6